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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/784,424	02/15/2001	Youri Ponomarev	NL 000139	7700
75	90 10/07/2002			
Michael E. Marion Corporate Patent Counsel U.S. Philips Corporation 580 White Plains Road			EXAMINER	
			ESTRADA, MICHELLE	
Tarrytown, NY 10591			ART UNIT	PAPER NUMBER
•			2823	
			DATE MAILED: 10/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Offic Action Summary	09/784,424	PONOMAREV, YOURI				
Onic Action Summary	Examiner	Art Unit				
The MAN INC DATE And	Michelle Estrada	2823				
The MAILING DATE f this communication appears on the cover sheet with the correspondence address Peri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 23 S	September 2002 .					
2a)☐ This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disp sition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
		* *				
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	have been received.	•				
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 & Company Coffice 1.5 Patent and Trademark Office	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I (claims 1-4) in Paper No. 5 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, line 2, it appears that the basis of the percentage (30%) is missing.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hwang et al. (EU-0614226).

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Hwang et al. discloses a semiconductor device with an integrated CMOS circuit with NMOS and PMOS transistors having semiconductor zones which are formed in a silicon substrate (3) and which adjoin a surface thereof, which surface is provided with a layer of gate oxide (2) on which gate electrodes are formed at those areas of the semiconductor zones which form gate zones of these transistors, such that the gate electrodes of the PMOS transistors are formed in a layer of p-type doped polycrystalline silicon and a layer of p-type doped polycrystalline silicon-germanium (Si1-xGex; 0<x<1) situated between said polycrystalline silicon layer and the gate oxide, characterized in that the gate electrodes of the NMOS transistors are formed in a layer of n-type doped polycrystalline silicon without germanium (Col. 1, lines 43-50 and Col. 3, lines 15-20); having PMOS transistors having gate electrodes which are formed in a layer of p-type doped polycrystalline silicon without germanium situated in the gate oxide, the latter PMOS transistors being equal to the former in all other aspects (Col. 3, lines 25-40).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hwang et al. as applied to claims 1-2 above, and further in view of Song (5,760,420).

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Hwang et al. does not disclose an amorphous silicon formed between the gate

oxide layer and the layer of polycrystalline silicon.

Song discloses a substrate (11); a gate insulator (31); an amorphous silicon layer

(41) and a silicon germanium layer (51); wherein the amorphous silicon layer is formed

between the gate insulator and the silicon germanium layer (See fig. 3B).

It would have been within the scope of one of ordinary skill in the art to combine

the teachings of Hwang et al. and Song to enable formation of the silicon germanium

layer and further provides resistance to the structure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michelle Estrada whose telephone number is (703) 308-

0729. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wael Fahmy can be reached on 703-308-4918. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722 for

regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

//Estrada

September 30, 2002

SUPERVISORY PRIMARY EXAMINER TECHNOLOGY CENTER 2800